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(54) OPTICAL INFORMATION RECORDER AND
OPTICAL INFORMATION RECORDING METHODthe exposure position to the master plate 2 by the
orthogonal coordinate.

(57) Abstract

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PROBLEM TO BE SOLVED: To easily make visible characters and images recordable by transforming position information by a polar coordinate based on the rotational center of an optical information recording medium into position information by an orthogonal coordinate and changing the light quantity of a laser beam according to picture data by making the position information by the orthogonal coordinate addresses.

SOLUTION: A spindle motor 4 rotatingly drives a master plate 2 to output an FG signal FG whose signal level is raised every time the disk 2 revolves by a prescribed angle to a spindle servo circuit 5 and an orthogonal coordinate position generating circuit 6 from an FG signal generator held at the bottom part of the motor. The circuit 6 generates position information expressing an exposure position by the polar coordinate based on the rotational center of the master plate 2 on the basis of the FG signal FG. Moreover, the circuit 6 transforms the position information by the polar coordinate into the position information by the orthogonal coordinate and generates position information X and Y expressing

